

TCI56-91 Size 2

Immersion coil chillers

COOLING CAPACITY

6000 - 7100 - 8100 - 9650 - 9200 - 11000 W



STRUCTURE

In powder-coated steel sheet, RAL 7035 textured finish. Easily removed panels

COMPRESSOR

Hermetic SCROLL compressor, cooled by the refrigerant, complete with thermal cut-out.

REFRIGERATION CIRCUIT

Complete with charging port, drier filter, thermostatic valve, high- and low-pressure pressure switch, refrigerant gas.

EVAPORATOR

Dual concentric coil in AISI 304 stainless steel. Resin-covered stainless-steel regulation sensor, IP67 rated.

AIR CONDENSER

Finned high-efficiency copper tube condensing coil, complete with safety grille.

AXIAL FAN

Axial fan, complete with thermal cut-out and safety grille. On request, centrifugal fan for air expulsion ducting.

ELECTRICAL PANEL

With main disconnect switch, fused motor protection.

MANAGEMENT AND CONTROL

The TX110 control unit manages the chiller's operation, providing warnings including high/low temperature alarms and a general serious fault alarm, with the display indicating if this refers to the refrigeration circuit or protection of the immersion coils. An on-off contact allows the machine to be switched on remotely. Control disconnect switch for switching on the machine.

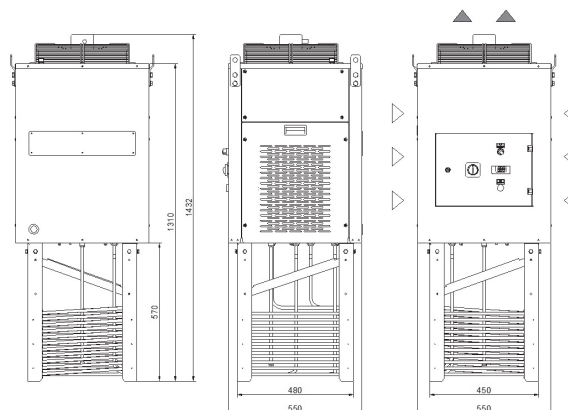
PAINT/COATING

Standard colour: RAL 7035 textured.

MAIN ACCESSORIES (on request, ref. page 189)

- LE - Electric level
- FP - Polyurethane air filter
- TD - Differential fluid temperature management (two sensors)
- BGP - Hot gas bypass for +/- 0.5 K temperature precision
- Agitator for fluid movement
- Non-standard paint/coating
- Satin AISI 304 stainless steel framework
- Design of higher cooling powers with dedicated framework
- Centrifugal fans for condensation air ducting

Dimensions



Model		TCI56		TCI70		TCI91	
		50Hz	60Hz	50Hz	60Hz	50Hz	60Hz
Rated Cooling Capacity*	W	6000	7100	8100	9650	9200	11000
Ambient temperature operating limits	°C	-5 - +45					
Settable fluid temperature range	°C	+15 / +25 water or emulsion max 5 cSt - 40°C +20 / +30 mineral oil 32 cSt - 40°C					
Temperature precision	K	+/- 1					
Refrigerant gas	HFC	R134a					
Minimum fluid flow rate (emulsion/oil)	l/min	40 - 60					
Minimum volume in tank (emulsion/oil)	l	60 - 100					
Power supply							
Supply voltage	V ph Hz	400/460V (+/-10%) 3ph 50/60Hz					
Secondary supply voltage	V	230V-24V AC					
Digital thermostat		TX110					
Compressor							
Compressor type		Scroll					
Quantity - Number of circuits	no.	1 - 1					
Max. power draw	kW	3.7	4.5	4.2	5.1	2.9	3.6
Max. current draw	A	5.4	6.3	7.1	8.0	6.0	6.9
Axial Fan							
Fan type		Axial					
Quantity	no.	1					
Air flow rate	m³/h	2000					
Max. power draw	kW	0.18	0.25	0.18	0.25	0.18	0.25
Max. current draw	A	0.81	1.1	0.81	1.1	0.81	1.1
Dimensions							
Net weight (approximate)***	kg	145		147		150	
Width	mm	550					
Depth	mm	550					
Height	mm	1432					
Sound pressure level**	dB(A)	57		57		57	
IP rating	IP	44					
<p>* Data relates to operation under the following conditions: Ambient temperature 32°C.</p> <p>** Sound pressure level at 50Hz, measured in a free hemispherical field at a distance of 1 m from the machine and 1.5 metres from the ground, per ISO 3746.</p> <p>*** Weight includes pallets and packaging (where provided for), with refrigerant charge and axial fans.</p> <p>**** The electrical data refer to cos φ = 0.8.</p>							

Correction factors for calculating the cooling power								
Ambient Temperature	Emulsion	Oil	Cooling capacity					
32	15	20	4620	5467	6237	7431	7084	8470
	20	25	5460	6461	7371	8782	8372	10010
	25	30	6000	7100	8100	9650	9200	11000
37	15	20	4332	5126	5848	6967	6642	7942
	20	25	5187	6138	7002	8342	7953	9510
	25	30	5700	6745	7695	9168	8740	10450
42	15	20	4066	4811	5489	6539	6234	7454
	20	25	4805	5686	6486	7728	7367	8809
	25	30	5280	6248	7128	8492	8096	9680